PATENT COOPERATION TREATY

PCT

REC'D 0 2 FEB 2006

PO PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

	licant's or agent's file referer 28732-PCT	FC	OR FURTHER ACTION	See Form PCT/IPEA/416
International application No. PCT/BR2004/000232		1	emational filing date <i>(day/month/year)</i> 1.11.2004	Priority date (day/month/year) 25.11.2003
	national Patent Classificatio 5D23/24	n (IPC) or nation	al classification and IPC ;	
	icant PRESA BRASILEIRA	DE COMPRE	SSORES S.AEMBRACO al	
1.	This report is the intern Authority under Article	ational prelimir 35 and transmi	nary examination report, established tted to the applicant according to Art	by this International Preliminary Examining icle 36.
2.	This REPORT consists	of a total of 6	sheets, including this cover sheet.	ere production of
3.	This report is also acco	mpanied by AN	NNEXES, comprising:	
	a. 🖾 sent to the appl	icant and to the	International Bureau) a total of 17	sheets, as follows:
	and/or shee	e description, on ts containing re ive Instructions	ectifications authorized by this Author	een amended and are the basis of this report rity (see Rule 70.16 and Section 607 of the
	sheets which beyond the Supplemen	disclosure in th	arlier sheets, but which this Authority ne international application as filed, a	considers contain an amendment that goes indicated in item 4 of Box No. I and the
	sequence listing	and/or tables r	au only) a total of (indicate type and r related thereto, in computer readable ing (see Section 802 of the Administr	number of electronic carrier(s)) , containing a form only, as indicated in the Supplemental rative Instructions).
		**		
	the state of			
4.		dications relatin	g to the following items:	
4.	This report contains inc		-	
4.	This report contains inc	of the opinion	-	
4.	This report contains inc ☑ Box No. I Basis ☐ Box No. II Priori	s of the opinion ity		entive step and industrial applicability
4.	This report contains inc ☐ Box No. I Basis ☐ Box No. II Priori ☐ Box No. III Non-	s of the opinion ity	of opinion with regard to novelty, inve	entive step and industrial applicability
4.	This report contains inc ☐ Box No. I Basis ☐ Box No. II Priori ☐ Box No. III Non- ☐ Box No. IV Lack ☐ Box No. V Reas	s of the opinion ity establishment o of unity of inve	of opinion with regard to novelty, inve	ovelty, inventive step or industrial
4.	This report contains inc ☐ Box No. I Basis ☐ Box No. II Priori ☐ Box No. III Non- ☐ Box No. IV Lack ☐ Box No. V Reas appli	s of the opinion ity establishment o of unity of inve	of opinion with regard to novelty, invention t under Article 35(2) with regard to n s and explanations supporting such	ovelty, inventive step or industrial statement
4.	This report contains inc ☐ Box No. I Basis ☐ Box No. II Priori ☐ Box No. III Non- ☐ Box No. IV Lack ☐ Box No. V Reas applic ☐ Box No. VI Certa ☐ Box No. VII Certa	s of the opinion ity establishment of of unity of inve- coned statement cability; citation ain documents of ain decements of	of opinion with regard to novelty, invention It under Article 35(2) with regard to note and explanations supporting such soited International application	ovelty, inventive step or industrial
4.	This report contains inc ☐ Box No. I Basis ☐ Box No. II Priori ☐ Box No. III Non- ☐ Box No. IV Lack ☐ Box No. V Reas applic ☐ Box No. VI Certa ☐ Box No. VII Certa	s of the opinion ity establishment of of unity of inve- coned statement cability; citation ain documents of ain decements of	of opinion with regard to novelty, invention It under Article 35(2) with regard to n It and explanations supporting such	ovelty, inventive step or industrial statement
•••	This report contains inc ☐ Box No. I Basis ☐ Box No. II Priori ☐ Box No. III Non- ☐ Box No. IV Lack ☐ Box No. V Reas applic ☐ Box No. VI Certa ☐ Box No. VII Certa	s of the opinion ity establishment of of unity of inver- coned statement cability; citation ain documents of ain defects in the ain observations	of opinion with regard to novelty, invention It under Article 35(2) with regard to note and explanations supporting such soited International application	ovelty, inventive step or industrial statement
Date	This report contains inc Box No. I Basis Box No. II Priori Box No. IV Lack Box No. V Reas appli Box No. VI Certa Box No. VII Certa Box No. VIII Certa	s of the opinion ity establishment of of unity of inver- coned statement cability; citation ain documents of ain defects in the ain observations	of opinion with regard to novelty, invention It under Article 35(2) with regard to n Is and explanations supporting such soited In international application Is on the international application	ovelty, inventive step or industrial statement
Date 23.0	This report contains inc Box No. I Basis Box No. II Priori Box No. IV Lack Box No. IV Lack Box No. V Reas appli Box No. VI Certa Box No. VII Certa Box No. VIII Certa of submission of the deman	s of the opinion ity establishment of of unity of inversioned statement cability; citation ain documents of the condition of	of opinion with regard to novelty, invention It under Article 35(2) with regard to note and explanations supporting such soited It international application It is on the international application Date of completion	ovelty, inventive step or industrial statement
Date 23.0	This report contains inc Box No. I Basis Box No. II Priori Box No. III Non- Box No. IV Lack Box No. V Reas applic Box No. VI Certa Box No. VII Certa Box No. VIII Certa of submission of the demandary examining authority: European Patent D-80298 Munich	s of the opinion ity establishment of of unity of inver- coned statemen cability; citation ain documents of in defects in the ain observations and e international	of opinion with regard to novelty, invention It under Article 35(2) with regard to note and explanations supporting such soited It is international application It is on the international application and it is on the international application application and it is on the international application and	ovelty, inventive step or industrial statement
Date 23.0	This report contains inc Box No. I Basis Box No. II Priori Box No. III Non- Box No. IV Lack Box No. V Reas appli Box No. VI Certa Box No. VII Certa Box No. VIII Certa of submission of the demandary examining authority: European Patent	s of the opinion ity establishment of of unity of inversioned statement cability; citations ain documents of the composition of	of opinion with regard to novelty, invention It under Article 35(2) with regard to note and explanations supporting such soited It is international application It is on the international application and it is on the international application application and it is on the international application and	ovelty, inventive step or industrial statement

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/BR2004/000232

_	Box No. I Basis of the report					
1.	With regard to the language , this report is based on the international application in the language in which it was iled, unless otherwise indicated under this item.					
	This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of:					
	 ☐ international search (under Rules 12.3 and 23.1(b)) ☐ publication of the international application (under Rule 12.4) ☐ international preliminary examination (under Rules 55.2 and/or 55.3) 					
2.	With regard to the elements* of have been furnished to the receireport as "originally filed" and are	the international application, this report is based on (replacement sheets which will be in response to an invitation under Article 14 are referred to in the enot annexed to this report):	hich is			
	Description, Pages					
	1	received on 23.09.2005 with letter of 23.09.2005				
	2-13	filed with telefax on 26.12.2005				
	Claims, Numbers		•			
		·	•			
	1-32	filed with telefax on 26.12.2005				
	Drawings, Sheets					
	1/3-3/3	as originally filed				
	a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing					
з.	☐ The amendments have resulted in the cancellation of:					
	☐ the description, pages					
	☐ the claims, Nos. ☐ the drawings, sheets/figs					
	☐ the sequence listing (specify):					
	any table(s) related to sequence listing (specify):					
4.	. This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).					
	☐ the description, pages ☐ the claims, Nos.					
	☐ the drawings, sheets/figs					
	☐ the sequence listing (spe ☐ any table(s) related to se					
	t If item 4 applies so	ome or all of these sheets may be marked "superseded "				

BEST AVAILABLE COPY

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/BR2004/000232

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No:

No:

Claims

Inventive step (IS)

Yes: Claims

Claims

1-32

1-32

Industrial applicability (IA)

Yes: Claims

1-32

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 1 The following document was cited in the International Search Report:
 - D1: US-A-5 564 831 (BASHARK ET AL) 15 October 1996
- 1.1 The following document is further considered to be relevant (Article 33(6) PCT).
 - D2: WO 03/095960 A1, 20 November 2003
- 2 Document **D2** is considered to represent the most relevant state of the art for independent claim 1.
- 2.1 Document D2 discloses
 - a) a sensing assembly 1 comprising a set of turns of an electrical winding coil 5 and an interaction element 4 adjustable by a user, the set of turns and the interaction element being movable in relation to each other, the set of turns being subjected to a sampling voltage and having a resistance (D2, figure 1 and abstract),
 - b) the sensing assembly being suitable for the measurement of a temperature of an environment, the measurement of the temperature of the environment being obtained from the alteration of the resistance of the set of turns (D2, page 10, line 23 to page 12, line 4 and figure 5),

from which the subject-matter of claim 1 differs in that

the sensing assembly is further suitable for defining the temperature set point of a cooling system, the definition of the temperature set point of the cooling system being obtained from the inductance of the set of turns, by displacing the interaction element with respect to the set of turns.

- 2.2 The technical problem to be solved by the present invention may be regarded as to measure the temperature of an environment and adjusting the temperature set point of a cooler by means of a single simple element.
- 2.3 Although document D2 discloses the simultaneous use of the sensing assembly as a position sensor and as a temperature sensor (see D2, page 10, line 23 to page 12, line 4), no hint can be found in the prior art that would lead the skilled person to use said sensing assembly as a temperature set point selector as according to document D1 (see D1, column 10, lines 31-42 and figure 1) in order to achieve temperature control employing an inductive position detector.
- 2.4 The subject-matter of independent claim 1 is therefore **novel** and **inventive** (Articles 33(2) and (3) PCT).
- 3 Document **D1** is considered to represent the most relevant state of the art for independent claim 14.
- 3.1 Document D1 discloses
 - a) a temperature set point adjusting and a temperature of an environment measuring system for a temperature control system, the adjusting and measuring system comprising a sensing assembly and a processing unit (D1, column 10, lines 31-42, abstract and figure 1),

from which the subject-matter of claim 14 differs in that

- b) the temperature control system is a cooling system and
- c) the sensing assembly has the features defined in claim 1.
- 3.2 The technical problem to be solved by the present invention may be regarded also here as to

measure the temperature of an environment and adjusting the temperature set point of a cooler by means of a single simple element.

....

· · · ·

- 3.3 Although feature b) is considered to be trivial, the reasoning of section 2.3 applies mutatis mutandis to claim 14 with respect to feature c).
- 3.4 The subject-matter of independent claim **14** is therefore **novel** and **inventive** (Articles 33(2) and (3) PCT).
- The corresponding independent claim **28** is **novel** and **inventive** for the same reasons as claim 14 (Articles 33(2) and (3) PCT).
- Claims 2 to 13, 15 to 27 and 29 to 32 are dependent on claims 1, 14 and 28, respectively, and as such also meet the requirements of the PCT with respect to novelty and inventive step.